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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,184	09/17/2003	Dean A. Klein	MTIPAT.046D1C1	8768
	7590 11/17/200 RTENS OLSON & BE	EXAMINER		
2040 MAIN ST	TREET	SCHNURR, JOHN R		
FOURTEENTH FLOOR IRVINE, CA 92614			ART UNIT	PAPER NUMBER
			2421	
			NOTIFICATION DATE	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

Office Action Summary

Application No.	Applicant(s)		
10/666,184	KLEIN, DEAN A.		
Examiner	Art Unit		
JOHN R. SCHNURR	2421		

- The MALING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extractions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a retyle be timely fitted - If NO period for reply is specified down, the maximum statutery priod will apply and will explose 100 (MONTHS) from the mailing date of this communication. - Failure to reply within the set or extended period for mely will by statutely priod will apply and will explose 100 (MONTHS) from the mailing date of this communication. - Failure to reply within the set or extended period for mely will by statutely priod will apply and will explose 100 (MONTHS) from the mailing date of this communication. - Failure to reply within the set of extended period for mely will by statutely and will be communication. - Failure to reply within the set of extended period for mely will by statutely and will be communication. - Failure to reply within the set of extended period for mely will by statutely and will be communication. - Failure to reply within the set of extended period for mely will by statutely and will be set of provided period of the set of the communication. - Failure to reply within the set of extended period for mely will by statutely and will be communication. - Failure to reply section in a set of extended period for mely will by statutely and will be communication. - Failure to reply will be set of extended period for mely will be set of the melling date of this communication. - Failure to reply within the set of extended period for melling date of the set of the priod of the extended period for melling date of the priod of the priod to documents have been received in this National Stage application from the International Bureau (PCT		CXailillei	AILOIIIL	1				
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a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Attachment(s) Attachment(s) All Interview Summary (PTO-413) Paper No(s)/Mail Date. Paper No(s)/Mail Date.	Priority under 35 U.S.C. § 119							
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	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Date 5) Notice of Informal Patent Application.					

Paper No(s)/Mail Date __

6) Other:

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/09/2008 has been entered.

DETAILED ACTION

Claims 1-51 are pending and have been examined.

Terminal Disclaimer

3. The terminal disclaimer filed on 09/09/2008 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent 6,637,030 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Arguments

 Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Application/Control Number: 10/666,184
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6. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over
Freadman (US Patent 6,288,749) in view of Smith et al. (US Patent 6,195,530), herein
Smith, in view of Decker et al. (US Patent 6,009,465), herein Decker, further in view of
Sanders et al. (US Patent 5.742,713), herein Sanders.

Consider claim 1, Freadman clearly teaches a network bus comprising:

a notch filter coupled to a cable, (Fig. 1: Signal converted 20 contains a notch filter, column 3 lines 52-62.) said cable routed in a tree configuration to a plurality of locations of a building, (Fig. 1: The plurality of locations in Fig. 1 are in a tree configuration and the locations are in the same building, column 3 lines 63-67.) said notch filter configured to filter out a portion of video signals carried by said cable; (column 3 lines 52-62)

Freadman further teaches modulating data to the notched frequency for distribution over the network (column 3 lines 36-48) and communication between the network devices (column 4 lines 22-30). However, Freadman does not explicitly teach a frequency converter, coupled to coaxial cable, configured to receive signals from said tree configuration at a first frequency and to forward said signals within said tree configuration at a second frequency, wherein said first and second frequencies are within said filtered out portion.

In an analogous art, Smith, which discloses a local video distribution network, clearly teaches the network comprises a tree configuration using coaxial cable (Fig. 1 transmission link 6, column 3 lines 46-50), a frequency converter receiving signals from the tree configuration at a first frequency, converting the signals to a second frequency and transmitting the signals back to the tree configuration, wherein the first and second frequencies are within the filtered out portion. (Fig. 1: Addressable transmitter/receiver 10 receives signals from the terminals 7, 8 or 9 over link 6 at a first frequency and transmits data to the terminals over the link 6 at a separate frequency, column 4 lines 36-57.)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman by modulating upstream and downstream communications in separate frequencies, as taught by Smith, for the benefit of eliminating the upstream RF link of Freadman.

However, Freadman and Smith do not explicitly teach a plurality of computers coupled to said wire.

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In an analogous art, Decker, which discloses a system for a local area network wherein filtered signals are displayed on a television set, clearly teaches a plurality of computers coupled to said wire. (column 12 lines 16-19 Decker)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Smith by utilizing a plurality of computers coupled to said wire, as taught by Decker, for the benefit of providing the user with added interactive functionality.

Freadman further teaches receiving and filtering the local area network computer signals being exchanged in the filtered out portion of the video signal so as to prevent the signals from being transmitted back to the broadcast source (column 3 lines 49-62). However, Freadman, Smith and Decker do not explicitly teach using said notch filter to prevent the transmissions from the local area network of computers from being sent to the external source.

In an analogous art, Sanders, which discloses a bidirectional cable system, clearly teaches using a notch filter to prevent the transmissions from the local network from being sent to the external source. (column 4 line 57 to column 5 line 67)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman, Smith and Decker by preventing upstream ingress noise using the notch filter, as taught by Sanders, for the benefit of further reducing noise on the upstream channel without use of an additional filter.

Consider claim 2, Freadman combined with Smith, Decker and Sanders, as in claim 1, clearly teaches said frequency converter is configured to forward said signals via said coaxial cable. (Fig. 1 transmission link 6, column 3 lines 46-50 Smith)

Consider claim 3, Freadman combined with Smith, Decker and Sanders, as in claim 1, clearly teaches said building comprises a residential building. (Any type of building may be used, column 3 lines 63-67 Freadman.)

Consider claim 4, Freadman combined with Smith, Decker and Sanders, as in claim 1, clearly teaches said video signals are delivered to said coaxial cable from a headend equipment of a community antenna television system. (column 3 lines 23-25 Freadman)

Consider claim 5, Freadman combined with Smith, Decker and Sanders, as in claim 1, clearly teaches said filtered out portion comprises a frequency range

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from approximately 50MHz to approximately 750MHz. (The notch filter filters out a television channel, column 3 lines 52-62 Freadman.)

 Claims 6-9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freadman (US Patent 6,288,749) in view of Smith et al. (US Patent 6,195,530) further in view of Sanders et al. (US Patent 5,742,713).

Consider claim 6, Freadman clearly teaches a local area computer network comprising:

a notch filter configured to receive a signal from a cable television transmission system (column 3 lines 23-25 Freadman) and to filter out at least one portion of said signal in the range of approximately 50 MHz to approximately 750 MHz to produce a filtered signal; (Fig. 1: Signal converted 20 contains a notch filter, which filters out a television channel, column 3 lines 52-62.)

a community antenna television wire configured to receive said filtered signal and routed in a tree configuration to a plurality of locations of a residence, said wire in communication with said notch filter; (Fig. 1: The plurality of locations in Fig. 1 are in a tree configuration and the locations are in the same building, column 3 lines 63-67.)

Freadman further teaches modulating data to the notched frequency for distribution over the network (column 3 lines 36-48) and communication between the network devices (column 4 lines 22-30). However, Freadman does not explicitly teach a plurality of computers coupled to said wire, each of said computers having a modem configured to receive and transmit broadband signals between said computers within said tree configuration; wherein said computers are configured to send and receive communications between different ones of said computers via said modems by modulating a carrier having a frequency within said filtered out portion.

In an analogous art, Smith, which discloses a local video distribution network, clearly teaches the network comprises a tree configuration (Fig. 1 transmission link 6, column 3 lines 46-50), a plurality of computers coupled to the wire each having a modem for transmission of broadband signals between the computers over the tree configuration, wherein said computers are configured to send and receive communications between different ones of said computers via said modems by modulating a carrier. (Fig. 2: Each of the terminals 7, 8 or 9 contains up/down converter 201, demodulator 202 and data receiver 203 for

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demodulating data received from the network and modulating data to be transmitted via the network, column 5 lines 13-34.)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman by using modems within a group of computers for modulating upstream and downstream communications in separate frequencies, as taught by Smith, for the benefit of eliminating the upstream RF link of Freadman.

Freadman further teaches receiving and filtering the signals being exchanged in the filtered out portion of the video signal so as to prevent the signals from being transmitted back to the broadcast source (column 3 lines 49-62). However, Freadman and Smith do not explicitly teach using said notch filter to prevent the transmissions from the local area network of computers from being sent to the external source.

In an analogous art, Sanders, which discloses a bidirectional cable system, clearly teaches using a notch filter to prevent the transmissions from the local network from being sent to the external source. (column 4 line 57 to column 5 line 67)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Smith by preventing upstream ingress noise using the notch filter, as taught by Sanders, for the benefit of further reducing noise on the upstream channel without use of an additional filter.

Consider claim 7, Freadman combined with Smith and Sanders, as in claim 6, clearly teaches the computers are configured to send said upstream signals to said cable television transmission system using a carrier frequency in the range of approximately 0 MHz to approximately 50 MHz. (column 4 lines 16-50 Sanders)

Consider claim 8, Freadman combined with Smith and Sanders, as in claim 6, clearly teaches said modems are configured to receive a signal at a first frequency and to transmit said signal at a second frequency, (Fig. 2: Each of the terminals 7, 8 or 9 contains up/down converter 201, demodulator 202 and data receiver 203 for demodulating data received from the network and modulating data to be transmitted via the network, column 5 lines 13-34 Smith.) wherein said first and second frequencies are within said filtered out portion. (Data communication takes place in the filtered portion of the spectrum, column 3 lines 36-62 Freadman.)

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Consider claim 9, Freadman combined with Smith and Sanders, as in claim 6, clearly teaches a frequency converter configured to convert signals from said first frequency to said second frequency. (Fig. 1: Addressable transmitter/receiver 10 receives signals from the terminals 7, 8 or 9 over link 6 at a first frequency and transmitts data to the terminals over the link 6 at a separate frequency. column 4 lines 36-57 Smith.)

Consider claim 12, Freadman combined with Smith and Sanders, as in claim 6, clearly teaches at least one of said computers is configured to receive signals from said transmission system using a carrier frequency in the range of approximately 0 MHz to approximately 50 MHz. (column 4 lines 43-50 Sanders)

 Claims 13-33 and 42-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freadman (US Patent 6,288,749) in view of Decker et al. (US Patent 6,009,465) further in view of Sanders et al. (US Patent 5,742,713).

Consider claim 13, Freadman clearly teaches a local area network comprising:

routing community antenna television wiring in a tree configuration to different parts of a structure; (Fig. 1: Data from broadcast source 100 is routed in a tree configuration to televisions 30 located within a structure, column 3 lines 23-25; lines 62-67.)

coupling a notch filter to said wiring for filtering out one or more television broadcasts delivered to said wiring by a service drop of a community antenna television distribution system; ; (Fig. 1: Signal converted 20 contains a notch filter, which filters out a television channel, column 3 lines 52-62.)

Freadman further teaches messages may be transmitted between the television sets in the filtered frequencies. (column 4 lines 28-30) To accomplish this data must be modulated and demodulated by the television sets.

However, Freadman does not explicitly teach a plurality of computers coupled to said wire.

In an analogous art, Decker, which discloses a system for a local area network wherein filtered signals are displayed on a television set, clearly teaches a plurality of computers coupled to said wire. (column 12 lines 16-19 Decker)

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Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman by utilizing a plurality of computers coupled to said wire, as taught by Decker, for the benefit of providing the user with added interactive functionality.

Freadman further teaches receiving and filtering the signals being exchanged in the filtered out portion of the video signal so as to prevent the signals from being transmitted back to the broadcast source (column 3 lines 49-62). However, Freadman and Decker do not explicitly teach using said notch filter to prevent the transmissions from the local area network of computers from being sent to the external source.

In an analogous art, Sanders, which discloses a bidirectional cable system, clearly teaches using a notch filter to prevent the transmissions from the local network from being sent to the external source. (column 4 line 57 to column 5 line 67)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Decker by preventing upstream ingress noise using the notch filter, as taught by Sanders, for the benefit of further reducing noise on the upstream channel without use of an additional filter.

Consider claim 14, Freadman combined with Decker and Sanders, as in claim 13, clearly teaches each of at least some of said computing devices comprises a receiver configured to receive video signals from said headend transmission equipment, (column 3 lines 23-25) and a modem configured to receive and transmit broadband signals between said computing devices. (column 4 lines 28-30)

Sanders further teaches a transmitter for forwarding signals to said headend transmission equipment, (column 4 lines 16-50)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Decker by communicating an upstream message, as taught by Sanders, for the benefit of providing a means for the user to communicate with the headend.

Consider claim 15, Freadman combined with Decker and Sanders, as in claim 13, clearly teaches computing devices comprise a computer and a microprocessor controlled appliance. (column 12 lines 16-23 Decker)

Consider claim 16, Freadman combined with Decker and Sanders, as in claim 13, clearly teaches said computing devices comprise an alarm system. (Any

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device capable of transmitting sensory data may be used, column 12 lines 16-19 Decker.)

Consider claim 17, Freadman combined with Decker and Sanders, as in claim 13, clearly teaches said filtered out television broadcasts comprise a portion of the frequency range between approximately 50 MHz to 750 MHz. (Television channels are located in the range of 50-750 MHz.)

Consider claims 18/14, 18/15, 18/16, 18/17, Freadman combined with Decker and Sanders, as in claim 13, clearly teaches said building comprises a residential building. (Any type of building may be used, column 3 lines 63-67 Freadman.)

Consider claim 19, Freadman combined with Decker and Sanders, as in claim 13, clearly teaches at least some of said computing devices transmit communications at a first frequency and receive communications at a second frequency, wherein said first and second frequency are within said filtered out television broadcasts. (Television sets 30 receive signals modulated at a television channel frequency and may communicate with each other, column 4 lines 22-30 Freadman.)

Consider claim 20. Freadman clearly teaches a local area network comprising:

coupling a notch filter to wiring carrying television signals, wherein the coaxial wiring is routed in a tree configuration to a plurality of locations in a building; (Fig. 1: Data from broadcast source 100 is sent to Signal converted 20, which contains a notch filter, then routed in a tree configuration to televisions 30 located within a structure, column 3 lines 23-25: lines 62-67.)

filtering out a frequency band comprising a portion of said television signals with the notch filter; (column 3 lines 52-62)

establishing two-way communications between at least two computing devices within the building and connected via the tree configuration, wherein said communications are carried at least in part over said wiring utilizing said frequency band. (column 4 lines 28-30)

However, Freadman does not explicitly teach said cable is a coaxial cable.

In an analogous art, Decker, which discloses a system for a local area network wherein filtered signals are displayed on a television set, clearly teaches the use of coaxial cable to transmit data. (column 5 lines 1-2)

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Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman by using coaxial cable, as taught by Decker, because both references teach methods of distributing data in a network it would have been obvious to substitute one cable type for another to achieve the predictable result of transmitting data.

Freadman further teaches receiving and filtering the signals being exchanged in the filtered out portion of the video signal so as to prevent the signals from being transmitted back to the broadcast source (column 3 lines 49-62). However, Freadman and Decker do not explicitly teach using said notch filter to prevent the transmissions from the local area network of computers from being sent to the external source.

In an analogous art, Sanders, which discloses a bidirectional cable system, clearly teaches using a notch filter to prevent the transmissions from the local network from being sent to the external source. (column 4 line 57 to column 5 line 67)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Decker by preventing upstream ingress noise using the notch filter, as taught by Sanders, for the benefit of further reducing noise on the upstream channel without use of an additional filter.

Consider claims 21 and 22, Freadman combined with Decker and Sanders, as in claim 20, clearly teaches said building comprises a residential building and said residential building comprises a plurality of rooms of a residence.. (Any type of building may be used, column 3 lines 63-67 Freadman.)

Consider claim 23, Freadman combined with Decker and Sanders, as in claim 20, clearly teaches said television signals are delivered to said building via a service drop of a community antenna television system. (column 3 lines 23-25 Freadman)

Consider claim 24, see claim 17.

Consider claim 25, Freadman combined with Decker and Sanders, as in claim 20, clearly teaches blocking at least some of said communications from being transmitted outside said local area network via said service drop. (Fig. 1: Signal converter 20 contains a comb filter 61 Freadman.)

Consider claim 26, see claim 19.

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Consider claim 27, Freadman combined with Decker and Sanders, as in claim 20, clearly teaches providing a frequency converter configured to receive said communications at said first frequency and to forward said communications at said second frequency. (Fig. 1: Signal converter 20 converts signals from one frequency to another frequency, column 3 lines 37-41 Freadman.)

Consider claim 28, Freadman combined with Decker and Sanders, as in claim 20, clearly teaches one of the computing devices sends a communication to another of the computing devices at a first frequency, and wherein said another computing device receives said communication at a second frequency. (Computing devices receive data on a channel frequency and transmit data via a separate frequency, column 4 lines 22-36 Freadman.)

Consider claim 29, Freadman combined with Decker and Sanders, as in claim 20, clearly teaches the method of claim 23.

Decker further teaches said computing devices comprise a network computer. (column 12 lines 16-19 Decker)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman by utilizing a plurality of computers coupled to said wire, as taught by Decker, for the benefit of providing the user with added interactive functionality.

Consider claim 30, see claim 29.

Consider claim 31, see claim 16.

Consider claim 32, see claim 29.

Consider claim 33, see claims 30-32.

Consider claim 42. Freadman clearly teaches a local area network comprising:

receiving a television signal from a headend transmission equipment of a cable television transmission system; (Fig. 1: Data from broadcast source 100 is routed to televisions 30, column 3 lines 23-25.)

filtering out a portion of said television signal in the range of approximately 50 MHz to approximately 750 MHz to produce a filtered signal; (Fig. 1: Signal converted 20 contains a notch filter, which filters out a television channel, column 3 lines 52-62.)

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coupling said filtered signal to unlooped cable television wiring; (Fig. 1: Data from broadcast source 100 is routed in a tree configuration to televisions 30. column 3 lines 23-25.)

Freadman further teaches messages may be transmitted between the television sets in the filtered frequencies. (column 4 lines 28-30) To accomplish this data must be modulated and demodulated by the television sets.

However, Freadman does not explicitly teach a plurality of computers coupled to said wire.

In an analogous art, Decker, which discloses a system for a local area network wherein filtered signals are displayed on a television set, clearly teaches a plurality of computers coupled to said wire. (column 12 lines 16-19 Decker)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman by utilizing a plurality of computers coupled to said wire, as taught by Decker, for the benefit of providing the user with added interactive functionality.

Freadman further teaches receiving and filtering the signals being exchanged in the filtered out portion of the video signal so as to prevent the signals from being transmitted back to the broadcast source (column 3 lines 49-62). However, Freadman and Decker do not explicitly teach using said notch filter to prevent the transmissions from the local area network of computers from being sent to the external source.

In an analogous art, Sanders, which discloses a bidirectional cable system, clearly teaches using a notch filter to prevent the transmissions from the local network from being sent to the external source. (column 4 line 57 to column 5 line 67)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Decker by preventing upstream ingress noise using the notch filter, as taught by Sanders, for the benefit of further reducing noise on the upstream channel without use of an additional filter.

Consider claim 43, Freadman combined with Decker and Sanders, as in claim 42, clearly teaches each of at least some of said computing devices comprises a receiver configured to receive video signals from said headend transmission equipment, (column 3 lines 23-25)

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Sanders further teaches a transmitter for forwarding signals to said headend transmission equipment. (column 4 lines 16-50)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Decker by communicating an upstream message, as taught by Sanders, for the benefit of providing a means for the user to communicate with the headend.

Consider **claim 44**, Freadman combined with Decker and Sanders, as in claim 42, clearly teaches personal computers sending signals over a network.

Sanders further teaches using a carrier frequency in the range of 0-50 MHz. (column 4 lines 16-50)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Decker by communicating an upstream message using a carrier frequency in the range of 0-50 MHz, as taught by Sanders, for the benefit of providing a means for the user to communicate with the headend.

Consider claim 45, Freadman combined with Decker and Sanders, as in claim 42, clearly teaches said building comprises a residential building. (Any type of building may be used, column 3 lines 63-67 Freadman.)

Consider claim 46, Freadman combined with Decker and Sanders, as in claim 42, clearly teaches a local area network.

Decker further teaches the use of coaxial cable to transmit data. (column 5 lines 1-2)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman by using coaxial cable, as taught by Decker, because both references teach methods of distributing data in a network it would have been obvious to substitute one cable type for another to achieve the predictable result of transmitting data.

Consider claim 47, Freadman combined with Decker and Sanders, as in claim 42, clearly teaches said computing devices comprise a network computer. (column 12 lines 16-19 Decker)

Consider claim 48, Freadman combined with Decker and Sanders, as in claim 20, clearly teaches said modem in configured to receive communications at a first frequency and to send communications at a second frequency. (Computing

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devices receive data on a channel frequency and transmit data via a separate frequency, column 4 lines 22-30 Freadman.)

Consider claim 49, Freadman combined with Decker and Sanders, as in claim 42, clearly teaches coupling a frequency converter to said wiring, wherein said frequency converter receives a communication at a first frequency and forwards said communication at a second frequency. (Fig. 1: Signal converter 20 converts signals from one frequency to another frequency, column 3 lines 37-41 Freadman.)

Consider claim 50, Freadman combined with Decker and Sanders, as in claim 42, clearly teaches said computing devices comprise a personal computer. (column 12 lines 16-19 Decker)

Consider claim 51, see claim 50.

 Claims 34, 35 and 38-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freadman (US Patent 6,288,749) in view of Smith et al. (US Patent 6,195,530) further in view of Coutinho (US Patent 5,760,822) and further in view of Sanders et al. (US Patent 5,742,713).

Consider claim 34, Freadman clearly teaches a network device comprising:

a receiver for receiving a television signal from a community antenna television system; (column 3 lines 23-25)

a notch filter configured to block at least one stop frequency band within the received television signal; (column 3 lines 49-62)

Freadman further teaches modulating data to the notched frequency for distribution over the network (column 3 lines 36-48) and communication between the network devices (column 4 lines 22-30). However, Freadman does not explicitly teach a modern configured to receive and transmit broadband signals between said computers within said tree configuration; wherein said computers are configured to send and receive communications between different ones of said computers via said modems by modulating a carrier having a frequency within said filtered out portion.

In an analogous art, Smith, which discloses a local video distribution network, clearly teaches the network comprises a tree configuration (Fig. 1 transmission

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link 6, column 3 lines 46-50), a plurality of computers coupled to the wire each having a modem for transmission of broadband signals between the computers over the tree configuration, wherein said computers are configured to send and receive communications between different ones of said computers via said modems by modulating a carrier. (Fig. 2: Each of the terminals 7, 8 or 9 contains up/down converter 201, demodulator 202 and data receiver 203 for demodulating data received from the network and modulating data to be transmitted via the network, column 5 lines 13-34.)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman by using moderns within a group of computers for modulating upstream and downstream communications in separate frequencies, as taught by Smith, for the benefit of eliminating the upstream RF link of Freadman.

However, Freadman and Smith do not explicitly teach a transmitter for forwarding signals to said headend transmission equipment.

In an analogous art, Coutinho, which discloses a system for transmitting data to a local in-building network, clearly teaches a transmitter for forwarding signals to said headend transmission equipment. (column 5 lines 23-50)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Smith by communicating an upstream message, as taught by Coutinho, for the benefit of providing a means for the user to communicate with the headend.

Freadman further teaches receiving and filtering the signals being exchanged in the filtered out portion of the video signals oa as to prevent the signals from being transmitted back to the broadcast source (column 3 lines 49-62). However, Freadman, Smith and Coutinho do not explicitly teach using said notch filter to prevent the transmissions from the local area network of computers from being sent to the external source.

In an analogous art, Sanders, which discloses a bidirectional cable system, clearly teaches using a notch filter to prevent the transmissions from the local network from being sent to the external source. (column 4 line 57 to column 5 line 67)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman and Decker by preventing upstream ingress noise using the notch filter, as taught by Sanders, for the benefit of further reducing noise on the upstream channel without use of an additional filter.

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Consider claim 35, Freadman combined with Smith, Coutinho and Sanders, as in claim 34, clearly teaches said modern is configured to receive signals at a first frequency and to transmit said signals at a second frequency. (Computing devices receive data on a channel frequency and transmit data via a separate frequency, column 4 lines 22-30 Freadman.)

Consider claim 38, Freadman combined with Smith, Coutinho and Sanders, as in claim 34, clearly said receiver is configured to receive signals in the range of approximately 50 to 750 MHz. (Television channels are located in the range of 50-750 MHz.)

Consider claim 39, Freadman combined with Smith, Coutinho and Sanders, as in claim 34, clearly teaches said network device comprises a microprocessor controlled appliance. (Fig. 2 Processor 206, column 5 lines 35-42 Smith)

Consider claim 40, see claim 39.

Consider claim 41, see claim 39.

10. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freadman (US Patent 6,288,749) in view of Smith et al. (US Patent 6,195,530) further in view of Sanders et al. (US Patent 5,742,713), as applied to claim 9 above, and further in view of Hendricks et al. (US Patent 6,738,978), herein Hendricks.

Consider claims 10, Freadman combined with Smith and Sanders, as in claim 9, clearly teaches a local area network.

However, Freadman combined with Smith and Sanders do not explicitly teach at least some of said computers are configured to receive digital data from the Internet via said wire.

In an analogous art Hendricks, which discloses a system for distributing television data, clearly teaches at least some of said computers are configured to receive digital data from the Internet via said wire. (column 49 lines 57-62)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman combined with Smith and Sanders by allowing at least some of said computers are configured to

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receive digital data from the Internet via said wire, as taught by Hendricks, for the benefit of providing diverse entertainment sources.

Consider **claims 11**, Freadman combined with Smith and Sanders, as in claim 9 above, clearly teaches a local area network.

However, Freadman combined with Smith and Sanders do not explicitly teach at least some of said computers are configured to receive FM audio signals via said wire.

In an analogous art Hendricks, which discloses a system for distributing television data, clearly teaches at least some of said computers are configured to receive FM audio signals via said wire. (column 26 lines 37-39)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman combined with Smith and Sanders by allowing at least some of said computers are configured to receive FM audio signals via said wire, as taught by Hendricks, for the benefit of providing diverse entertainment sources.

11. Claims 36 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freadman (US Patent 6,288,749) in view of Smith et al. (US Patent 6,195,530) further in view of Coutinho (US Patent 5,760,822) and further in view of Sanders et al. (US Patent 5,742,713), as applied to claim 34 above, and further in view of Hendricks et al. (US Patent 6,738,978).

Consider claim 36, Freadman combined with Smith, Coutinho and Sanders, as in claim 34, clearly teaches a local area network.

However, Freadman combined with Smith, Coutinho and Sanders do not explicitly teach at least some of said computers are configured to receive digital data from the Internet via said wire.

In an analogous art Hendricks, which discloses a system for distributing television data, clearly teaches at least some of said computers are configured to receive digital data from the Internet via said wire. (column 49 lines 57-62)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman combined with

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Smith, Coutinho and Sanders by allowing at least some of said computers are configured to receive digital data from the Internet via said wire, as taught by Hendricks, for the benefit of providing diverse entertainment sources.

Consider claim 37, Freadman combined with Smith, Coutinho and Sanders, as in claim 34, clearly teaches a local area network.

However, Freadman combined with Smith, Coutinho and Sanders do not explicitly teach at least some of said computers are configured to receive FM audio signals via said wire.

In an analogous art Hendricks, which discloses a system for distributing television data, clearly teaches at least some of said computers are configured to receive FM audio signals via said wire. (column 26 lines 37-39)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Freadman combined with Smith, Coutinho and Sanders by allowing at least some of said computers are configured to receive FM audio signals via said wire, as taught by Hendricks, for the benefit of providing diverse entertainment sources.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN R. SCHNURR whose telephone number is (571)270-1458. The examiner can normally be reached on Monday - Friday, 8:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/John W. Miller/ Supervisory Patent Examiner, Art Unit 2421